CHAPTER II

REVIEW OF RELATED LITERATUR

A. Quantum Learning Teaching Model

Quantum Learning is a powerful and engaging teaching and learning methodology that integrates best educational practices into a unified whole. This synergistic approach to the learning process covers both theory and practice. It has been proven to increase academic achievement and improve students' attitudes toward the learning process. These integrated, comprehensive programs turn abstract theory into practical applications that can be used immediately in the classroom. In Quantum Learning classrooms, workshops, schools and districts nationwide and worldwide, teachers, administrators and students gain the skills and motivation to contribute to creating an academically and socially successful school community.⁵

In Quantum learning teaching there are some stages namely which the researcher want to apply it in teaching learning process. In this chapter, the researcher needs to review some theories about Quantum Learning teaching.

1. History emergence

Historical aspects, the root view, and limitations of people have not much discussed. This result has not recognized the full quantum learning and

⁵ http://qln-services.ne/go.php/538702/104113691362-html

accelerated program offered by Quantum Learning Forum is an international education company that emphasizes the development of academic skills and personal skills.⁶

The students receive tips that help them in the notes, memorization, speed reading, and writing, communicating and building relationships as well as tips that enhance their ability to control the things in life. The results showed that students who follow the Super Comp get better grades, participate more and more proud of themselves.

2. Main principle Metrology Quantum Teaching

Teaching Quantum rely on this concept; "Bring their world into our world and our world to take their world". It means that the importance of a teacher of students entering the world as a first step. The reason is that this action will give permission to lead, guide, and facilitate student travel to the patience and knowledge more widely. How, by linking what teachers teach with an event, thoughts, or feelings derived from his home life, social, athletic, music, art, recreation, or academic them. Once this connection is formed, the teacher can bring them into his world and provide an understanding of the contents of that world. Therefore, that student can take what they learn into the world and the new situation and condition.

6 http://www.articles base -com/education-articles/the-quantum-learning-tenets-521145-

3. Quantum Principles Teaching

Teaching has Quantum learning five principles or truth remains;

- Everything speaks everything from the classroom environment through body language, paper distributed to teacher lesson plans, and all send messages about the lesson.
- 2. Everything aims
- 3. Experience before giving a name the most effective learning process occurs when students have experienced the information before they get a name for what they are learning.
- 4. Acknowledge every effort each took steps; students deserve recognition for skills and their confidence.
- 5. If the proper study, it is worth also celebrated

B. Quantum Learning Effectiveness in Teaching Learning Process

Teaching Quantum includes specific instructions to create an effective learning environment, curriculum design, deliver content and facilitate the learning process. Studying ways in Teaching Quantum can improve;

- a) Participation by composing state
- b) Motivation and interest in applying the framework design (TANDUR)
- c) Sense of community by using the eight key advantages
- d) Memory by using the Slim-n-BILL
- e) Power with your students by following the principles of effective
- f) Smoothness of transition with the MPT

There are many other strategies that will be able to place teachers and students on the fast lane and all of that to the success of learning. These principles affect all aspects of Teaching Quantum regarded as the basic chord structure and symphony learning, as well as the infrastructure for teacher learning models.

C. Foundations Quantum Learning

Nowadays we can find many kinds of teaching approach however a teacher should select an appropriate approach of teaching in order to reach the success of English teaching in learning process.

Quantum learning is playing orchestra in which the variety of interaction, including feature of effective learning which affect student success are inside and around teaching learning process will change the student nature of ability and talent become light which will be very useful for the student and other. It requires the teacher knowing how to motivate, conduct and guide the student abilities, skill and hobbies. It also includes interaction for getting the success through the effective and interesting techniques of teaching. Quantum learning shows the teacher how to avoid boredom in studying English, explain some aspect that should be paid attention to create an attractive condition to study.

⁷ http:// qln-services.ne/go.php/538702/104113691362-html

1. Environment

The environment hold important role in learning process when quantum learning method is applied.⁸ Its means that the all round in the classroom get round message spur on students. The environment condition has surely meant for students motivation and interest. Teacher needs to conceive a good and appropriate environment for student because the student and the environment are related and endorsing each other.

The situation of the classroom is important to be paid attention to. ⁹ It includes seat arrangement, temperature, lighting and cleanliness in classroom not only the classroom but also the atmosphere of classroom needs to be paid attention to strain and serious learning will bring boredom to the student, the teacher must let the student expressing their idea freely. ¹⁰ The teacher's main responsibility is to create good relation with student. It determines student achievement in learning English. In this atmosphere, the student will not be afraid to tell their feeling, need, and judgment it is called "Pleasure Zone".

2. Base

Quantum learning has a base as the teachers and the student's guideline when working together in teaching learning process. 11 The base that constitute key to bound for success, the keys will beneficial if you

Bhority ,lynn. The Act Approach: The Artful Use of Suggestion for Integrative Learning ,(Bremen , Germany : PLS Verlag. 1991)page : 103

⁹ Posted Ferdy H. By: Ferdy H. Pantar Pantar February 13, 2009

¹⁰ http://www.qln.com/what_is_quantum_learning.html

Hart, Leslie. Human Brain, Human Learning, (New York: Freeman and Coh 1983).page: 81

administer in the classroom Both the teacher and the student have to put that base into effect in their daily activities to make the teaching and learning process more smoothly. It is called 8 kunci keunggulan (8 superiority keys of Quantum teaching) they are:

- Integrity (honesty) you must be honest and they do it with the attitude in harmony.
- Failure is the beginning of the success, there is no failure in learning, actually it bring information that we needs to be success
- Speak in good intend: you must speak honestly and be responsible for everything that you have said,
- Lives in this time: time is a valuable thing so do your task and use your time as well as you can,
- Commitment: comply your responsibilities and promise. Do what you should to do finish your task
- 6) Responsibility: you must be responsible for everything what you have done.
- Flexibility: accept the new changes and rapprochements, which can help you to reach the outcome that you want.
- 8) Balance: keep the balance of your though, feeling, body and soul, Give a certain time to keep and build it in harmony

C. Program Quantum Learning

Teacher must have plans about what and how to give material in attractive ways and use teaching aid to make the student interest and motivation in

learning English. Then they will not be afraid to learn foreign language and regard it as an easy subject to be learned. Teachers plan is occurred in lesson plan.

In making lesson plan, teacher should pay attention to the draft of teaching plan of Quantum teaching in order to make the teaching learning process successful. It is called as TANDUR; TANDUR is a stage that must be done by teacher in applying Quantum learning.¹² They are

T = Tumbuhkan (stimulate)

A = Alami (experience)

N = Namai (give code)

D = Demonstarsikan (demonstrate)

U= Ulangi (repeat)

R = Rayakan (give a reward)

D. Stage in Quantum Learning

As a method Quantum learning also has a stage that must be done a teacher in order to make the teaching learning process go on smoothly. The stage are Tumbuhkan (stimulate) Alami (experience) Namai (give code) Demonstarsikan (demonstrate) Ulangi (repeat) Rayakan (give a reward) In short, it is called as TANDUR.

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¹² http://www.qln.com/what_is_quantum_learning.html

T – Tumbuhkan (stimulate)

In the beginning of the lesson, teacher should be stimulate students interest in learning and motivate them to learn English teacher also explain to them that the subject they learn has some and special benefit for the future, As the first stage teacher can give some question about what student know about the material that will be discussed. There are no wrong answers, teacher should receive them students answers is the basic knowledge about the material. Before asking to the student teacher can create a creative act such as doing pantomime playing a video or telling a funny story relate to the material. Here teacher tries to create fun situation, it is important in applying Quantum teaching since strain situation can make the student get bore easily.

Those creative acts can motivate the student. One of the most critical aspects of learning motivation is also of most difficult to measure. Motivation is the influence of needs and desires on the intensity and direction of behavior motivation to learn can come in many ways. However, what teacher does creating fun situation, can motivate the students so they eager to learn the subject.

Furthermore, beside motivate the student: what a teacher does it aimed to leave the student to brainstorming is important since it is the first stage how student learn. In short, what teacher must do in the first stage is stimulated motivated and brainstorming the student, then they will feel enjoy in learning subject.

Alami (Experience)

When the student states their knowledge about the topic, teacher should collect and conclude them. Then teacher gives short explanation in order to connect what the student know and what exactly the topic is. Since what student learn is influence by their existing ideas.

In this stage, teacher should create a situation as a real situation. For example, when teacher wants to explain about making a good easy. he shown a triangle which is divided into three part. Each part has different color. When the teacher takes one of them out. it cannot be called as triangle. The triangle that is shown by teacher can represent an essay. This has three parts: opening, body, and conclusion. By this way it will make a general experience for the student. The teacher also should prepare an interesting teaching aid to help student to understand the material.

Namai (Give Code)

After giving general information at this stage teacher must give more specific information about the material to the student. The main point of the lesson that will give to the student is applied as the stage. When explaining the material teacher is performer but it does not mean that teacher performance automatically means that teacher must be standing at the front of class putting on a "show. " Different material and level of student will affect teacher performance. In another words, teacher may be stand at the front giving command or curtaining the student for a minute, but few minute later, teacher

will working quietly with a pair while the student are working in their own pairs.

However, teacher performance affect classroom behavior student will easily get bore when they know that their teacher is not enthuse to explain the material. Explaining the material does not mean that teacher talk too much in front of class Here, teacher can apply creative activity such as team game or role play. When teacher applies team game, teacher should behave energetically, encouragingly, clearly and fairly.

Meanwhile when applying role-play teacher should behave clearly, encouragingly, retiringly and supportively (harmer) at this stage the important thing is not only teacher should create fun situation, but also student can understand the material. Since the goal of teaching learning process is student understand and able to apply the material in their daily life. To do this use of teaching aids, such as picture, card, colorful chalk, etc is important, it is aimed when the student receive the material give by teacher, student will easy remember what they have learned. That it is called as "long term of memory". To begin the class, teacher often asks the student about the last material. If student get the last material in fun situation and care helped by proper teaching aid, they will easily recall the material. Then they will also enthuse to get the next material.

¹³http://www.amazon.com/Quantum-Learning-Unleashing-Genius-You/dp/0440504279

Demonstasikan (Demonstrate)

After giving explanation, teacher should give a chance to the student to express their idea freely to show that they know what the teacher is taught and they can do it.14 By the way student will confident to tell their idea. Teacher can give the student some task to do. Then they can report their task.

Though doing the task or language production exercise students often make mistakes. Divides mistakes into three broad categories. They are slip, error and attempt. Slip is mistakes when students can correct themselves once the mistakes have been pointed out to them. Error is the mistakes which the students cannot correct themselves and which therefore needs explanation. Meanwhile attempt is when a student tries to say something but he or she does not yet know the correct way of saying it.

Knowing that student make mistakes, teacher should not get angry to them. Teacher must know when they make mistakes, they will learn something. That is why teacher must correct student 'mistakes by giving them feedback.

Generally, feedback means information on the result of one's effort In the classroom, feedback is not only correcting student mistakes, but also offering student an assessment of how well they have done state that feedback is both motivation and informative. Praise for job well done such as "that's good work! I like the way you used the guide words in the dictionary to finds the words on your worksheet!" Will motivate the student in learning the lesson.

¹⁴ http://www.iqln.com/25A/QLmethods.asp

But when the student make mistakes on their sheet and teacher correct it directly, it means teacher inform students about their mistake.

Here they will know that what they have done is wrong also, they will know how to correct it. They way teacher blaming student mistake is should be paid attention to. Teacher is not allowed to say, "How stupid you are!" to the students because such this word will underestimate student. However teacher can say, "I rather disagree with this point, how about this one? ". In short, at this stage students are freely in expressing their idea in applying the material. However, teacher job is giving positive feedback to what the students do.

Ulangi (Repeat)

In almost end of the lesson, repetition of what students have learned is important.¹⁵ After receiving and storing the material or information then the learner should imitate and repeat the lesson. It is aimed to make sure that students understand the material.

At this stage teacher can give some questions to the students about the material that they have learned. When all students raise their hand and shout their answer, teacher should choose one of them to answer one question, and give the other students chance to answer question. Teacher also can ask the students to write down the main point of the material in colorful paper and stick it on wail.

¹⁵ www.supercamp.com/downloads/Quantum_Learning_Education.pdf

Rayakan (Celebrate)

A celebration at the end of the lesson will make the students feel happy. Besides that, teacher should appreciate their effort, diligence, and successfulness in learning a subject. Moreover, it will make the students satisfy than they know that they are able to understand the lesson and to apply what they have learnt in their daily.

A celebration can be done in many ways. However, ¹⁶thinks that singing together, giving reward, or sticking students' work on classroom wall magazine is effective to celebrate students' success. Since it will motivate the students to try what they have learned many times. If the students are motivated then they know that they understand about the lesson, they will enthuse to learn other thing relates to the lesson that they have got. It is important for the students to improve themselves. In conclusion, "Tumbuhkan" (stimulate), "Alami" (experience), "Namai" (give code), "Demonstrasikan" (demonstrate), "Ulangi" (repeat), and "Rayakan" (celebrate) are the stages how teacher should apply quantum teaching. Every stage has its own rule.

It is important to be paid attention to since merry, funny, and smooth teaching learning process is more effective than learning in strain and boring situation. Besides that, the goal of teaching learning process is to make the students understand and able to apply what they have learned. ¹⁷That

¹⁶http://www.mcphersonsentinel.com/features/x861572450/Washington-students-learn-about-citizenship-excellence

www.supercamp.com/downloads/Quantum_Learning_Education.pdf

successful learning involves three things: being able to understand something, being able to remember it, and being able to make use of it. TANDUR will help teacher to create effective learning environment.

E. Strategy and Method in Teaching Learning Process

Learning is the process of the student for making an idea and understanding something, that is why teachers' should give motivation and opportunity for their students to learn by themselves, teacher should create an active atmosphere which is involves students to monitor ask and explain. Teacher should appreciate what they have done even though the result is not satisfied enough. This will challenge student to do and think enjoyable during learning process.

There are some teaching and learning process principles that have be remembered in the classroom by the teacher .First the teaching and learning process must place the student as the subject or in other words, it is oriented to the student. Second, the talent, ability, way of learning, learning motivation and the students' background of social life must be noticed. Third the teaching and learning process must give the real experience and chance for the student to communicate their ideas with other students or the teacher. At last, the development of the desire to know, imagination and religiosity, the problem solving skill, the creativity, the ability in using science and technology, the education to create kinds citizen, long to life education, the integration of competition, cooperation and solidarity .Those principles are useful in

achieving the learning outcomes so that the students will be able to use the competencies in the real world and get better future by using science in new method is a interesting.

The teaching and learning process has to allow the students to build their idea. In this activity, the teacher should create a learning situation that involves student actively by observing, asking in interview and explaining. The source of learning is an important thing in the teaching learning process. The teacher can use the surrounding, library, mass media; tourism is have and meaning activity so media and learning connected with students.

1. Classroom -Based Assessment in Quantum Learning Method

The assessment is held integrated with the teaching and learning process. It is done by collecting portfolio, product, project, performance and written test or paper and Quantum learning. The assessment is the most important thing in the teaching and learning process. The success and failure of the teaching and learning process can be seen from the result of assessment.

Some advantages of classroom-based assessment in Quantum Learning Method are as follow. 18

- 1) To give feedback for the students to know their ability and weakness' so that they can be motivated to improve their learning outcomes.
- 2) To monitor and diagnose student's achievement to hold remedial based on the student's needs.

¹⁸ http://www.qtl management.com/classroom management.html

- To give input for the teachers to improve their teaching and learning process in the classroom.
- 4) To make the student able to achieve the stated competencies.
- 5) To give information for the society to increase their participation.

The information for the assessment is gathered by using various ways so the student's learning achievement can be detected completely. The facts and evidences are also used to determine the student's achievement.

The principles of classroom-based assessment in quantum learning as stated Are:

- a) Validility: the assessment must give accurate information about the learning out comes.
- b) Educating: the assessment must give positive feedback for students' achievement.
- c) Competency oriented: the assessment should facus on the competencies achievement.
- d) Fair: the assessment must be fair to all students.
- e) Open: the criteria of the assessment must be clear.
- f) Continuously: the assessment is done continuously and gradually.
- g) Entirely: the assessment includes the cognitive, psychomotor and effective assessment.
- h) Meaningful: the assessment should be understandable, meaningful, and useful.

Classroom-based assessment in quantum learning is held during the teaching and learning process, at the end the semester and each education grade.

2. Management of school-based Quantum Learning

The management of school-based learning involves the school, the region education department, province education department. ¹⁹ Each of them has their own roles and responsibilities as stated.

- 1) The school is responsible in increasing the communication between the teacher, the administrators, parents, students, etc. Determining the steps of administration such as the syllabus development and arranging the placement of the teacher in each class.
- 2) Region education department it is responsible in giving the funds, making the rules of syllabus development, socializing competencybased curriculum, examining the syllabus, distributing the syllabus, examining the school willing to use competency-based learning and controlling the syllabus.
- 3) Province education department as the facilitator of syllabus development team, it is responsible to give the operational treatment, control the syllabus development and implementation, give the support for educational resource, give the funds and get the information about the education in the province.

¹⁹ http://www.qtl_management.com/classroom_management.html

4) Center education department It is responsible in planning, developing and evaluating quantum learning method, giving advices, giving treatment about concept and philosophy, recovering the classroom management, giving the treatment for curriculum builders in region, and holding workshop and seminar about the quantum learning method.

Using Quantum Learning Method Implementation in school. The quantum learning method should be implemented in class, which consists of not more than 40 students. The school must be supported by committee or province educational department, it must use some references, the teacher and the headmaster should intend to comprehend the classrooms management. Besides that, there is at least one teacher for one subject, the teachers are active in the cooperation in MGMP, at least three of the teachers are university graduated and the schools has at least two administrators, it seems that there are many complicated requirements to apply the classroom management but fortunately most of the schools in Indonesia have fulfilled those things except the schools taken place in sub urban areas.

The quantum learning has some primary concept for its approach (meaningful approach) such as:

- Language is way to express idea, opinion and feeling using structure and vocabulary.
- 2) The meaning is determined by the context or situation.
- 3) Meaning can be expressed both in spoken and written from.

- 4) Learning to use language means to learn to communicate both by speaking and writing.
- 5) Student's motivation is the main factor in their success.
- 6) The materials should be dealing with the students' needs, experiences and future.
- 7) The main subjects are the students whereas the teacher is the facilitator.

C. Professional Teacher in Quantum Learning

As good teacher, he / she must have a good quality and skill to handle class including student, atmosphere or material it. The success of the implantation of the Quantum Learning Method curriculum is on his or her hand. Therefore, it is better for school management or even teacher to know the criteria of professional teacher in order to develop their own skills .The characteristics of professional teacher are including²⁰:

- Teachers are always made a good and detail preparation before doing teaching and learning process.
- 2) Teacher's point of view should change and treat student as a component in order to build a good idea. The teacher function is to serve and act as partner of the student hence the meaning of long life education will stay in their minds.
- 3) Teachers are expected to be more critical and dare to refuse all uneducated willingness.

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www.supercamp.com/downloads/profesional_teacher in quantum teaching.pdf

- 4) Teacher must be able to change the function of the student from being consumer to be productive. Students are active in asking Question of teacher is to become a facilitator.
- 5) Teacher should give more information to society in order to make then involve and support teaching and learning process.
- 6) Teacher should be creative in making other supporting media for teaching and learning process, and then to make organization class, etc.

F. Review of Previous Study

Several studies registered to this research. The first is the study written by Nurfitria Dewi (2006), entitle. "The using of Quantum Learning Method to Improve The Descriptive Writing an Ability of The Second Year Student of SMP Negri 1 Tuban. Her study was conducted to gain several purposes based on statements of the problems, which were going to be answered. Those are:

1) how is the Quantum Learning method applied in teaching descriptive writing to the second years of the student of SMP Negeri 1 Tuban? 2) How does the student improvement when Quantum Learning method is used in the teaching descriptive writing? 3) What are the student responses toward the use of Quantum Learning method in the teaching descriptive writing? The writer concluded that used descriptive qualitative data since it deals with the description of the observed phenomenon. First the Quantum Learning method is used as an alternative in teaching learning process.

Secondly, it is also provided of student writing progress in context, language use, and vocabulary. Third, it looks at possible response from the students relate to the content of Quantum Learning method itself, technique applied and their writing skill.

The second is the study written by Oktaviantiy (2006) entitled "Using Quantum Learning Method Picture as an Alternative Method in Speaking at The Eighth Grade of Junior High School." The study was conducted to find out what Quantum Learning method can be use to stimulate the students idea to speak well.

The third is a study written by Dwi Eka Cahyono (2004) entitled "The Implementation of Quantum Learning Method in The English Teaching at The SMPN 5 Surabaya." The writer study was conducted to find out 1) how the teaching activities in English teaching learning process work when Quantum Learning is applied In the classroom. 2) What the teaching aids Quantum learning is applied. The writer concluded that he used description of the data here. The use Quantum Learning process when teaching learning process can be improved for the academic student and this is successful, and the writer, writer problem and teaching aid using Quantum Learning method when the teaching learning process.

From the previous studies above, it can be seen that use of Quantum Learning in teaching learning process gives a positive effect and could stimulate the student's interest to create a good teaching learning process.

While in this research, we understand of Quantum learning and what the problem in Quantum learning method by the teacher.